Infiltrator IM- and TW-Series Tank General Installation Instructions

BEFORE YOU BEGIN

'trator Systems' tanks must be installed according to state and/or local gulations, which supersede the manufacturer's installation instructions. If unsure of the installation requirements for a specific site, contact the health department or permitting authority. The IM-Series referred to in this document includes the IM-540, IM-1060, and IM-1530 tanks. The TW-Series includes the TW-1250 and TW-1500 tanks.



WARNING: IMPLOSIONS MAY CAUSE SERIOUS INJURY Follow Infiltrator Systems Inc. vacuum test instructions

MATERIALS AND EQUIPMENT NEEDED ☐ Infiltrator tank ☐ ShoveI ☐ Access port lid(s) (included) □ Level ☐ 10 screws per lid (included) ☐ 5-inch-diameter (125 mm) hole saw (IM-Series only) □ 2 inlet/outlet gaskets (included) ☐ 5.25-inch-diameter (133 mm) hole saw (TW-Series only) ☐ Inlet/outlet tees* □ Utility knife ☐ Tape measure ☐ PVC pipe glue with primer ☐ Pipe, risers, etc. □ Socket wrench *tee inclusion varies by state/province □ Excavator

INSTALLATION SITE SELECTION

- Do not install the tank in vehicular traffic areas. The tank is designed for non-traffic applications,
- 2. The allowable soil cover depth is 6 to 48* inches (150 to 1,200 mm).
 *18-inch (450 mm) max. in Florida for Cat. 3 IM- and TW-Series tanks;
 48-inch (1,200 mm) max. in Florida for Cat. 4 IM-Series tanks; 36-inch (900 mm) max. in Massachusetts, New Hampshire, North Carolina, and Oregon.
- 3. The tank shall not be installed where the subsurface water level outside the tank exceeds the height of the outlet pipe saddle. Follow Table 4 guidelines.

CAVATING AND PREPARING THE SITE

- 1. Unless buoyancy control measures are required, the excavation width and length should be 12 to 36 inches (300 to 900 mm) larger than the tank on each side. See Infiltrator IM- and TW-Series Tank Buoyancy Control Guidance document, available online at www.infiltratorsystems.com, for specific excavation requirements.
- 2. Excavate to account for the height of tank. 55 inches (1,375 mm) for the IM-Series tanks and 51 inches (1,275 mm) for the TW-Series tanks. Also account for 4 inches (100 mm) of bedding (if required), and backfill thickness (permissible cover depth is 0.5 to 4 feet (150 to 1,200 mm) of soil).

Note: If the water level outside the tank exceeds the height of the outlet pipe saddle, tank structural integrity may be compromised. Follow Table 4 guidelines.

- Inspect bottom of excavation to verify suitability of native soil for tank installation. Soils with large, protruding, or sharp stones or other similar objects that may damage the tank are not suitable.
- 4. The tank may be installed either in suitable native soil (see Backfilling the Tank section) or a minimum 4-inch (100 mm) layer of well-graded granular soil having particles less than 3 inches (75 mm) in diameter, or maximum 0.5-inch (13 mm) diameter crushed stone.
- 5. Create a uniform, compacted, level surface to ensure that the bottom of the tank is evenly supported. Verify that the installation surface is flat.



STALLING THE TANK

inspect the tank for damage before installation.

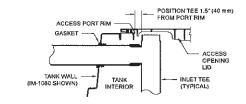
2. If the tank inlet and outlet penetrations are not drilled, drill holes using the drill points provided at each of the inlet and outlet ports according to the applicable Inlet and Outlet Hole Locations section of this document. The inlet and outlet may 20130413 C

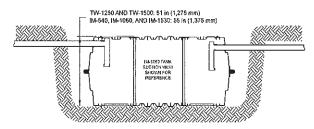


be drilled on either the sides or ends of the tank, as required based on applicable codes and site conditions.

Florida, Indiana, Kentucky, Oregon, West Virginia and certain Texas tank inlet/outlet holes are factory drilled.

- 3. The gaskets supplied with the tank are compatible with Schedule 40 and SDR 35 pipe using a 5-inch-diameter (125 mm) hole saw with IM-Series tanks, and a 51/4-inch-diameter (133 mm) hole saw with TW-Series tanks.
- 4. Install the rubber gaskets at the inlet and outlet.
- 5. Using the tank's integral lifting lugs, lower tank into excavation.
- **6.** Slide the inlet and outlet pipes* through the gaskets. Soapy lubricant may be used to slide the pipe in.
- *For North Carolina, the inlet pipe shall be a straight pipe with no tee.
- 7. Horizontally position the tee 1½ inches (40 mm) from the access port rim, allowing the tee to fit into the recess in the access port lid (see detail).
- 8. Install lids and risers (see Installing Risers section) as necessary. Rotate lid over access opening until it indexes to tank and drops into position.

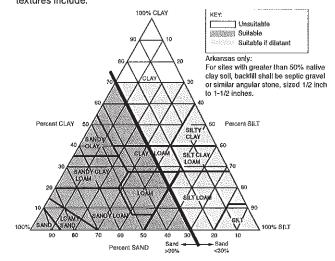




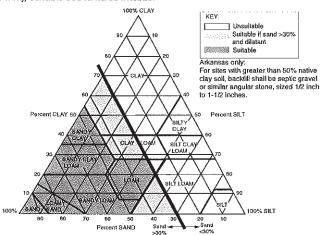
BACKFILLING THE TANK

Note: Infiltrator tanks do not require filling with water prior to backfill placement. Water filling and backfilling to the tank mid-height is required if the tank is left in either an open or backfilled excavation that may fill with water from rain or other sources.

- 1. Backfill with suitable native soil. If native soil is unsuitable, replace unsuitable fraction with suitable soil. If suitable soil is not locally available, contact Infiltrator Systems for assistance.
- Suitable soil shall include soil textural classes defined in the United States Department of Agriculture soil triangle. Suitable soil textural classes are based on the tank installation depth, as measured from finished grade to the top of tank.
 - a) For a tank soil cover depth of 0.5 to 2.0 feet (150 to 600 mm), suitable soil textures include:



a) For a tank soil cover depth that is greater than 2.0 feet and up to 4.0 feet (600 to 1,200 mm), suitable soil textures include:



- 1. Backfill should not have stones greater than 3 inches (75 mm) in diameter or excessive clods that do not break apart during placement and compaction. Backfill must be capable of occupying the spaces between the tank ribs and beneath the haunches.
- 2. Standard field soil classification methods shall be used to determine the soil textural class.

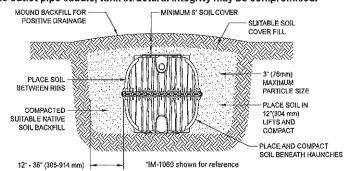
Note: Under most circumstances, the determination of soil dilatancy will not be required. Dilatancy shall be determined in the field using a test that does not require specialized equipment, per ASTM D2488, Section 14.3. Complete instructions can be found at www.infiltratorsystems.com

- 3. Do not backfill top of tank before sidewalls are completely backfilled.
- 4. Place and compact soil by walking-in beneath the haunches of the tank.
- Place backfill around the four sidewalls in an alternating manner, so that the backfill height along the four sidewalls is maintained within a 12-inch (300 mm) tolerance.
- 6. Continue to place backfill along the sidewalls in 12-inch (300 mm) lifts. Place backfill between the ribs on the sidewalls such that the space between the ribs is completely filled with soil.
- 7. Compact backfill material either by walking-in, hand tamping or mechanical compaction (includes backhoe bucket). If mechanical compaction is used, such as a walk-behind tamper or backhoe bucket, a single pass is recommended. Compact each lift prior to placement of next lift. Compact backfill from tank walls to excavation sidewalls.
- 8. Complete backfilling and grade the area.
- **9.** A minimum 6-inch-thick (150 mm) layer of suitable soil must be placed over the top of the tank. The balance of backfill placed to finish grade above the tank may be either suitable or unsuitable soil.
- 10. Establish a strong stand of erosion-resistant vegetation,

Note: Grade to prevent the backfilled excavation from filling with surface runoff. If the water level in the backfilled excavation exceeds the height of the outlet pipe saddle, tank structural integrity may be compromised.

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SHORT AND LONG-TERM GROUNDWATER CONTROL

It may be necessary to implement groundwater control measures during tank installation. Maintain dry conditions by expanding the excavation to create a short-term groundwater collection sump for temporary placement of a dewatering pump

if needed. Long-term groundwater control measures such as underdrains and interceptor trenches may be sensible if the site is amenable to construction of a control system and such systems are not prohibited by regulation or law, and the tank location is not subject to flooding. Properly installed underdrains and groundwater interceptor trenches may prevent the need for tank buoyancy control measures.

INSTALLING UNDER SHALLOW GROUNDWATER CONDITIONS

Buoyancy control measures may be required if the Infiltrator tank is to be installed with less than 12 inches (300 mm) of soil backfill cover, and where the water level outside the tank has the potential to rise 30 inches (750 mm) or more above the elevation of the tank bottom. Otherwise, no control measures are required (see Table 1). The need for buoyancy control measures must be determined based on backfill cover depth and height of water outside of tank above the tank bottom according to Table 1. Refer to Infiltrator IM- and TW-Series Tank Buoyancy Control Guidance document for more information.

Table 1: Tank mode	ls ¹ and conditions requiring buo	yancy control ²		
Mi-t b-!-bt -b	Soil cover depth above tank ^a			
Water height above tank bottom	6 in (150 mm) to 12 in (300 mm)	Above 12 in (300 mm)		
Above outlet pipe saddle	Do not install	Do not install		
36 in (900 mm) to outlet pipe saddle ⁴	All models	None		
30 in (750 mm) to 36 in (900 mm)	All models except IM-540 and IM-1060	None		
Less than 30 in (750 mm)	None	None		

- 1. IM-540, IM-1060, TW-1250, TW-1500, and IM-1530,
- See Infiltrator IM- and TW- Series Tank Buoyancy Control Guidance for detailed information on the use of controls.
- 3. No controls are required for soil cover depths exceeding 12" (300 mm).
- 4. The tank shall not be installed where the water level outside the tank exceeds the height of the outlet pipe saddle. Follow Table 4 guidelines.

INSTALLING RISERS

1. Compatible risers include 24-inch (600 mm) diameter products such as the Infiltrator TW-Riser, EZset by Infiltrator, PolyLok®, Inc., and Tuf-Tite® Corporatj in addition to 24-inch (600 mm) diameter corrugated HDPE and IPEX Ultra Rib® PVC pipe. Follow Infiltrator's IM- and TW-Series Tank Riser Connection Guidance.

2. In Oregon only, watertightness testing shall include filling with water at least 2 inches above riser connection, with no more than 1 gallon leakage per 24 hours, per OAR 340-073-0025(3).

INSTALLING PUMPS AND RELATED EQUIPMENT

Pumps may be supported on a stable, level 16×16 inch $(400 \times 400 \text{ mm})$ platform positioned on the bottom of the tank. One 16×16 inch block or two 8×16 inch $(200 \text{ mm} \times 400 \text{ mm})$ side-by-side blocks may be used. Limit block height to account for pump height and liquid levels during pump cycles. Block(s) should be placed below an access opening and level upon the tank bottom. For two blocks, orient them perpendicular to ribs on the tank bottom, if present, for stability. Installation of products such as electrical conduit and wiring, pumps, water level control equipment, valves, siphon equipment, etc. shall be in accordance with the product manufacturer's instructions and compliant with applicable state or local rules and regulations. Appurtenances shall be fastened to the tank riser system and not the tank body or access opening rim. Where possible, appurtenances shall be installed to facilitate maintenance and repair access via the tank access openings.

GENERAL SPECIFICATIONS

- · Failure to comply with installation instructions will void warranty.
- Prior to ground disturbance, check for subsurface obstructions and utilities in conformance with applicable requirements.
- Operating water temperature shall be less than 100° F (40° C).
- . Tanks are not fire resistant. Store away from ignition sources.
- Removal of structural bulkheads is prohibited; removal of locking clips on the IM-Series tank mid-seam connection is also prohibited.
- Suitable for potable applications only if the tank bearing an NSF/ANSI 61 certification mark, otherwise tank is recommended for use in septic, rainwater/ stormwater storage, and pump applications or other non-potable unit.
- · Infiltrator tanks are designed for installation underground.
- · Contact Infiltrator Systems for above-ground use requirements.

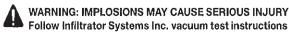


Table 2: Infiltrator Tank Nominal Volume Chart

Hei	ght¹				rotal liqui	d volume in t	ant at muto	diod noight			
- I		IM-540		IM-1060		TW-1250		TW-1500		IM-1530	
in	cm	U.S. Gal	Liters	U.S. Gal	Liters	U.S. Gal	Liters	U.S. Gal	Liters	U.S. Gal	Liter
1	3	3	11	3	11	14	53	17	64	8	30
2	5	8	30	13	49	30	115	37	140	24	89
3	8	14	53	28	106	58	218	71	267	43	164
4	10	21	80	46	174	87	330	107	404	67	254
5	13	29	109	65	246	117	444	143	543	93	350
6	15	37	141	86	326	148	558	180	683	121	459
7	18	46	173	107	405	178	674	218	825	151	57
8	20	55	207	129	488	209	791	256	968	182	687
9	23	64	243	152	575	240	910	294	1,112	213	801
10	25	74	279	176	666	272	1,029	332	1,257	246	932
11	28	84	317	200	757	304	1,149	371	1,404	280	1,06
12	30	94	356	225	852	336	1,270	410	1,551	315	1,19
13	33	105	396	251	950	368	1,393	449	1,700	350	1,32
14	36	116	437	277	1,049	400	1,516	489	1,849	386	1,46
15	38	127	480	303	1,147	433	1,640	528	2,000	422	1,59
16	40	138	523	330	1,249	466	1,765	569	2,152	459	1,73
17	43	150	566	357	1,351	500	1,892	609	2,305	496	1,87
18	46	161	611	384	1,454	533	2,019	650	2,459	533	2,01
19	48	173	656	411	1,556	567	2,146	690	2,614	570	2,15
20	50	186	702	438	1,658	601	2,275	732	2,769	608	2,30
21	53	198	749	465	1,760	636	2,407	774	2,928	646	2,44
22	56	210	796	493	1,866	671	2,541	816	3,091	684	2,59
23	58	223	843	521	1,972	708	2,678	860	3,256	723	2,73
24	61	235	891	549	2,078	745	2,819	905	3,425	761	2,88
25	64	248	940	577	2,184	781	2,955	948	3,589	800	3,02
26	66	261	988	605	2,290	815	3,086	990	3,747	839	3,17
27	69	274	1,038	633	2,396	849	3,215	1,031	3,903	879	3,32
28	71	287	1,088	662	2,506	883	3,342	1,072	4,057	918	3,47
29	74	300	1,137	691	2,616	916	3,469	1,112	4,210	958	3,62
30	76	313	1,185	719	2,722	950	3,594	1,152	4,362	996	3,77
31	79	326	1,233	747	2,828	982	3,719	1,192	4,514	1,035	3,91
32	81	338	1,281	775	2,934	1,015	3,842	1,232	4,663	1,073	4,06
33	84	351	1,328	802	3,036	1,047	3,964	1,271	4,810	1,112	4,20
34	86	363	1,375	830	3,142	1,079	4,084	1,309	4,956	1,150	4,35
35	89	375	1,421	857	3,244	1,110	4,203	1,347	5,101	1,187	4,49
36	91	387	1,466	884	3,346	1,141	4,320	1,385	5,243	1,225	4,63
37	94	399	1,511	911	3,449	1,172	4,436	1,422	5,384	1,262	4,77
38	97	411	1,555	938	3,551	1,201	4,548	1,458	5,521	1,299	4,91
39	99	422	1,598	965	3,653	1,230	4,657	1,494	5,654	1,336	5,05
40	102	433	1,640	992	3,755	1,261	4,772	1,532	5,798	1,372	5,19
41	104	444	1,681	1,018	3,854	1,286	4,869	1,562	5,915	1,408	5,33
42	107	455	1,722	1,044	3,952	1,314	4,972	1,596	6,042	1,444	5,46
43	109	465	1,761	1,069	4,047	1,340	5,074	1,629	6,167	1,478	5,59
44	112	475	1,799	1,094	4,141	1,366	5,172	1,661	6,288	1,512	5,72
45	114	485	1,836	1,118	4,232	1,390	5,263	1,690	6,399	1,545	5,84
46	117	494	1,871	1,142	4,323	1,410	5,337	1,715	6,492	1,577	5,97
47	119	503	1,905	1,165	4,410	1,427	5,402	1,737	6,574	1,608	6,08
48	122	512	1,938	1,187	4,493	1,439	5,446	1,750	6,626	1,638	6,19
49	124	520	1,970	1,208	4,573	1,448	5,481	1,762	6,669	1,666	6,30
50	127	528	1,999	1,228	4,648	-	-	-		1,692	6,40
51	130	535	2,027	1,247	4,720			_		1,717	6,49
52	132	542	2,050	1,265	4,789			-		1,737	6,57
53	135	547	2,071	1,278	4,838	_	_		_	1,754	6,63

^{1.} Height measured from lowermost inside surface at bottom of corrugation in tank.

^{2.} The total capacity of the IM-540 tank is 552 gallons; the total capacity of the IM-1530 tank is 1,769 gallons.

INLET AND OUTLET HOLE LOCATIONS

Drill height marks are provided on all Infiltrator tank models to guide inlet and outlet hole drilling. On the TW-Series tanks, marks "A" (lower) and "B" (upper) are located at the inlet end, while marks "C" (lower) and "D" (middle) are located at the outlet end. A single drill height mark is provided at each end or side port on the IM-Series tanks (example illustrated below). Holes may be drilled at the end or side inlet and outlet

locations, as allowed by state and/or local regulations. The drill height mark indicates the center point location for the hole saw. The pilot drill bit on the hole saw should be positioned at the center of the drill height mark to align the hole saw properly. Table 3 provides drilling and invert information by regulatory jurisdiction for the installation of 4-inch-diameter (100 mm) pipe.

Table 3: Inlet and Outlet Hole Locations

	Inlet Drill	Outlet Drill	Invest Deep	Inlet Invert Height (in) [mm]		Outlet Invert	
Jurisdiction ¹	Location	Location	Invert Drop (in) [mm]	Above Inside Bottom of Tank ²	Above Excavation Base ³	Height ² and Liquid Level (in) [mm]	
			IM-540 and IN	M-1530			
All	All	All	3.00 [76]	47.00 [1,994]	47.20 [1,199]	44.00 [1,118]	
			IM-1060)			
All	End Side Side End	End Side End Side	3.00 [76] 3.00 [76] 3.50 [89] 2.50 [64]	47.00 [1,994] 47.50 [1,207] 47.50 [1,207] 47.00 [1,994]	47.20 [1,199] 47.70 [1,212] 47.70 [1,212] 47.20 [1,199]	44.00 [1,118] 44.50 [1,130] 44.00 [1,118] 44.50 [1,130]	
		Т	W-1250 and T	W-1500			
FL	В	D	2.75 [70]	42.75 [1,086]	43.45 [1,102]	40.00 [1,016]	
DE, IA, MA, ON	Α	D	2.00 [51]	42.00 [1,067]	42.70 [1,086]	40.00 [1,016]	
AR, CA, CO, CT, ID, IN, KS, KY, MO, MT, ND, OR, PA, SD, TX, VT, WV	В	С	3.00 [76]	42.75 [1,086]	43.45 [1,102]	39.75 [1,010]	
All Others	Α	С	2.25 [57]	42.00 [1,067]	42.70 [1,086]	39.75 [1,010]	

NOTES: 1. Indiana, Kentucky, Oregon, West Virginia, and certain Florida and Texas tanks are factory drilled. 2. Invert heights are measured from the lowest interior surface at the bottom of the tank to the invert. 3. Invert heights are measured from the base of the excavation to the invert. 4. State, provincial, and local regulatory requirements supersede Table 3 information.

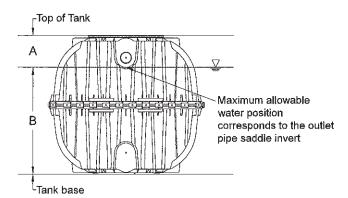


Table 4: Maximum Allowable Subsurface Water Elevation

	Vertical Distance to Maximum Allowable Water Elevation Outside of Tank				
Tank Model	A - From Top of Tank	B - From Tank Base			
IM-Series¹	13" (330 mm)	43" (1,075 mm)			
TW-Series ²	11" (280 mm)	39" (975 mm)			

- 1. IM-Series tanks include the IM-540, IM-1060, and IM-1530.
- 2. TW-Series tanks include the TW-1250 and TW-1500.



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www.infiltratorsystems.com

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(a) This limited warranty is extended to the end user of an Infiltrator Septic Tank. A Septic Tank manufacture. Infiltrator, when installed and operated in accordance with Infiltrator's installation instructions and local regulation by a licensed installer, is warranted to you: (i) against defective materials and workmanship for five (5) years after installation. Infiltrator will, at its option, (i) repair the defective product or (ii) replace the defective materials. Infiltrator's liability specifically excludes the cost of removal and/or installation of the Septic Tank.

(b) In order to exercise its warranty rights, you must notify Inflitrator in writing at its corporate headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect.
(c) YOUR EXCLUSIVE REMEDY WITH RESPECT TO ANY AND ALL LOSSES OR DAMAGES RESULTING FROM ANY

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(e) YOU MAY ASSIGN THIS LIMITED WARRANTY TO A SUBSEQUENT PURCHASER OF YOUR HOME.

(f) NO REPRESENTATIVE OF INFILTRATOR HAS THE AUTHORITY TO CHANGE THIS LIMITED WARRANTY IN ANY MANNER WHATSOEVER, OR TO EXTEND THIS LIMITED WARRANTY.

CONDITIONS AND EXCLUSIONS

There are certain conditions or applications over which Intiltrator has no control. Defects or problems as a result of such conditions or applications are not the responsibility of Intiltrator and are NOT covered under this warranty. They include failure to install the Septic Tank in accordance with instructions or applicable regulatory requirements or guidance, altering the Septic Tank contrary to the installation instructions and disposing of chemicals or other materials contrary to normal septic tank usage.

The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of a Septic Tank should contact Infiltrator's corporate headquarters in Old Saybrook, Connecticut, prior to such purchase to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of a Septic Tank.

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